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|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/720,753 | TUOMI ET AL. | |
| | Examiner | Art Unit | |
| | Huy Q. Phan | 2687 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 01/13/2006.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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Reasons for Allowance

1. Claims 1-15 are allowed.

The following is a statement of reason for the indication of allowance:

Applicant's arguments, see REMARKS (pages 7-18), filed on 01/13/2006, with respect to the rejection(s) of claim(s) 1-15 have been fully considered and are persuasive.

Veerasamy discloses "In a next step 142, the serving visitor location register (VLR) 120 forwards the authentication request (AUTHREQ) to the home location register (HLR) 118 associated with the mobile station (MS) 126. In a next step 144, the home location register (HLR) 118 forwards the AUTHREQ to the authentication center (AC) 116 of the home system 112. The authentication center (AC) 116 of the home system 112 then determines that it is able to share shared secret data (SSD) 130 and authentication failure triggers (AFTRIGS) 128 with the serving system 114. The authentication center (AC) 116 returns an authentication request (authreq) to the requesting home location register (HLR) 118 and includes the shared secret data (SSD) 130 and authentication failure trigger (AFTRIGS) 128 parameters. In a next step 146, the home location register (HLR) 118 forwards the authentication request (authreq) to the serving visitor location register (VLR) 120" (see col. 7).

Sanchez discloses "Once the selection process is complete, a FEATREQ message 400 is sent from the pilot node 100 to the HLR 80. The appropriate change data FEATREQ flag is set within the FEATREQ message to allow updating the service feature(s) requested, while preventing other changes to the profile that would normally

occur if the flag was not set, such as location update, fraudulent activity detection, and/or authentication. Of course, if an AMS 20 (i.e., the telephone assigned to the profile) is used through the PSTN or pilot node 100 to request changes to the feature profile, all of the regular profiles features which are automatically updated generally by the network 9, or as a result of check and inquiries conducted by the HLR 80 (e.g., phone location, phone activity indicator, fraud detection, authentication, etc.), will be updated also, as is the case with the method illustrated in steps 200-310" (see col. 8).

Gallagher discloses "At time Td, the invalid MS transmits an invalid feature code string to the MSC/VLR 106A. The MSC/VLR 106A transmits an invoke feature request signal (FEATREQ) to the HLR/AC 302 at time Te. The HLR/AC 302 invokes the authentication technique of the present invention to determine that the invalid MS is not authentic. The HLR/AC transmits a failed feature request result to the MSC/VLR 106 at time Tf. Since the invalid MS is not authentic, the HLR/AC 302 can transmit a QUALDIR signal indicating that authorization was denied or an invoke registration cancellation signal (REGCANC) to delete the invalid MS from the MSC/VLR 106 database" (see fig. 9 and its description).

However, the combination of Veerasamy, Sanchez and Gallagher does not disclose nor fairly suggest a method for performing authentication in a communication system comprising an authentication server (AS), and a user profile store storing user profiles for users of the communication system, the method comprising:

transmitting from the authentication server to the user profile store a request for the user profile of a user;

receiving at the AS a response to the request;
determining whether the response is indicative of an error; and
if the response is indicative of an error, transmitting from the authentication server to the user profile store a message of a type that triggers the user profile store to perform a location update procedure in respect of the user.

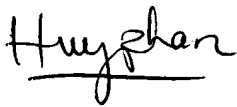
2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy Q Phan whose telephone number is 571-272-7924. The examiner can normally be reached on 8AM-6PM.

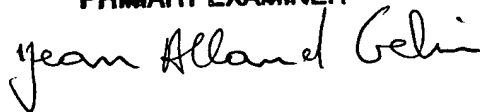
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Examiner: Phan, Huy Q.

JEAN GELIN
PRIMARY EXAMINER



AU: 2687

Date: 02/22/2006